

X16758M.ST25.txt
SEQUENCE LISTING

<110> Watkins, Jeffry D.
Vasserot, Alain P.
Marquis, David
Huse, William D.

<120> TNF-alpha Binding Molecules

<130> X-16758M

<140> PCT/US04/00290

<141> 2004-01-08

<150> 10/338,552

<151> 2003-01-08

<150> 10/338,627

<151> 2003-01-08

<160> 114

<170> PatentIn version 3.3

<210> 1

<211> 107

<212> PRT

<213> Artificial

<220>

<223> Synthetic Construct

<400> 1

Glu Ile Val Leu Thr Gln Ser Pro Asp Phe Gln Ser Val Thr Pro Lys
1 5 10 15

Glu Lys Val Thr Ile Thr Cys Arg Ala Ser Gln Phe Val Gly Ser Ser
20 25 30

Ile His Trp Tyr Gln Gln Lys Pro Asp Gln Ser Pro Lys Leu Leu Ile
35 40 45

Lys Tyr Ala Ser Glu Ser Met Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Asn Ser Leu Glu Ala
65 70 75 80

Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Ser His Ser Trp His Phe
85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 2

<211> 321

X16758M.ST25.txt

<212> DNA
<213> Artificial

<220>
<223> Synthetic Construct

<400> 2
gaaattgtgc tgactcagtc tccagacttt cagtctgtga ctccaaaaga gaaagtcacc 60
atcacctgca gggccagtca gttcgttggc tcaagcatcc actggtacca gcagaagcca 120
gatcagtctc caaagctcct catcaagtat gcttctgagt ctatgtctgg ggtcccctcg 180
aggttcagtg gcagtggatc tgggacagat ttcaccctca ccatcaatag cctggaagct 240
gaagatgctg ccacgtatta ctgtcaacaa agtcatagct ggcatttcac gttcggccaa 300
gggaccaagg tggaatcaa a 321

<210> 3
<211> 120
<212> PRT
<213> Artificial

<220>
<223> Synthetic Construct

<400> 3

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn His
20 25 30
Trp Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Gly Glu Ile Arg Ser Lys Ser Ile Asn Ser Ala Thr His Tyr Ala Glu
50 55 60
Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Ser
65 70 75 80
Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr
85 90 95
Tyr Cys Ala Arg Asn Tyr Tyr Gly Ser Thr Tyr Asp His Trp Gly Gln
100 105 110
Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 4
<211> 360

X16758M.ST25.txt

<212> DNA
<213> Artificial

<220>
<223> Synthetic Construct

<400> 4
gaggtgcagc tgggtggagtc tgggggaggc ttggtccagc ctggagggtc cctgagactc 60
tcctgtgcag cctctggatt cactttcagt aaccactgga tgaactgggt ccgccaggct 120
ccaggggaagg ggctggagtg ggttggcgaa attagatcaa aatctattaa ttctgcaaca 180
cattatgcgg agtctgtgaa agggagattc accatctcaa gagatgattc aaagaactca 240
ctgtacctgc agatgaacag cctgaaaacc gaggacacgg ccgtgtatta ctgtgctaga 300
aattactacg gtagtaccta cgaccattgg ggccaagggg ccctggtcac cgtctcctca 360

<210> 5
<211> 107
<212> PRT
<213> Artificial

<220>
<223> Synthetic Construct

<400> 5

Glu Ile Val Leu Thr Gln Ser Pro Asp Phe Gln Ser Val Thr Pro Lys
1 5 10 15

Glu Lys Val Thr Ile Thr Cys Arg Ala Ser Gln Phe Val Gly Tyr Ser
20 25 30

Ile His Trp Tyr Gln Gln Lys Pro Asp Gln Ser Pro Lys Leu Leu Ile
35 40 45

Lys Tyr Ala Ser Glu Ser Arg Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Asn Ser Leu Glu Ala
65 70 75 80

Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Ser His Ser Trp His Phe
85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 6
<211> 321
<212> DNA
<213> Artificial

<220>

<223> Synthetic Construct

```

<400> 6
gaaattgtgc tgactcagtc tccagacttt cagtctgtga ctccaaaaga gaaagtcacc      60
atcacctgca gggccagtc gttcgttggc tatagcatcc actggtacca gcagaagcca      120
gatcagtctc caaagctcct catcaagtat gcttctgagt ctaggtctgg ggtcccctcg      180
aggttcagtg gcagtggatc tgggacagat ttcaccctca ccatcaatag cctggaagct      240
gaagatgctg ccacgtatta ctgtcaacaa agtcatagct ggcatttcac gttcggccaa      300
gggaccaagg tggaatcaa a                                          321

```

```

<210> 7
<211> 120
<212> PRT
<213> Artificial

```

```

<220>
<223> Synthetic Construct

```

```

<400> 7
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1          5          10          15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Lys Phe Ser Asn His
          20          25          30

Trp Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
          35          40          45

Gly Glu Ile Arg Ser Lys Ser Met Asn Ser Ala Thr His Tyr Ala Glu
          50          55          60

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Ser
65          70          75          80

Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr
          85          90          95

Tyr Cys Ala Arg Asn Tyr Tyr Gly Ser Thr Tyr Asp His Trp Gly Gln
          100          105          110

Gly Thr Leu Val Thr Val Ser Ser
          115          120

```

```

<210> 8
<211> 360
<212> DNA
<213> Artificial

```

<220>

<223> Synthetic Construct

<400> 8
gaggtgcagc tgggtggagtc tgggggaggc ttggtccagc ctggagggtc cctgagactc 60
tcctgtgcag cctctggatt ccctttcagt aaccactgga tgaactgggt ccgccaggct 120
ccaggggaagg ggctggagtg ggttggcgaa attagatcaa aatctatgaa ttctgcaaca 180
cattatgcgg agtctgtgaa agggagattc accatctcaa gagatgattc aaagaactca 240
ctgtacctgc agatgaacag cctgaaaacc gaggacacgg ccgtgtatta ctgtgctaga 300
aattactacg gtagtaccta cgaccattgg ggccaaggga ccctgggtcac cgtctcctca 360

<210> 9

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Synthetic Construct

<400> 9

Arg Ala Ser Gln Phe Val Gly Ser Ser Ile His
1 5 10

<210> 10

<211> 33

<212> DNA

<213> Artificial

<220>

<223> Synthetic Construct

<400> 10

agggccagtc agttcgttgg ctcaagcatc cac 33

<210> 11

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Synthetic Construct

<400> 11

Arg Ala Ser Gln Phe Val Gly Leu Ser Ile His
1 5 10

<210> 12

<211> 33

<212> DNA

<213> Artificial

<220>

<223> Synthetic Construct

<400> 12
agggccagtc agttcgttgg ccttagcatc cac 33

<210> 13
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Synthetic Construct

<400> 13

Arg Ala Ser Gln Phe Val Gly Met Ser Ile His
1 5 10

<210> 14
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Synthetic Construct

<400> 14
agggccagtc agttcgttgg catgagcatc cac 33

<210> 15
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Synthetic Construct

<400> 15

Arg Ala Ser Gln Phe Val Gly Tyr Ser Ile His
1 5 10

<210> 16
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Synthetic Construct

<400> 16
agggccagtc agttcgttgg ctatagcatc cac 33

<210> 17
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Synthetic Construct

<220>
 <221> MISC_FEATURE
 <222> (8)..(8)
 <223> The residue in this position could be any amino acid

<400> 17

Arg Ala Ser Gln Phe Val Gly Xaa Ser Ile His
 1 5 10

<210> 18
 <211> 33
 <212> DNA
 <213> Artificial

<220>
 <223> Synthetic Construct

<220>
 <221> misc_feature
 <222> (22)..(24)
 <223> The residues in these positions could be any amino acid

<400> 18
 agggccagtc agttcggttg cnnagcatc cac

33

<210> 19
 <211> 7
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic Construct

<400> 19

Tyr Ala Ser Glu Ser Met Ser
 1 5

<210> 20
 <211> 21
 <212> DNA
 <213> Artificial

<220>
 <223> Synthetic Construct

<400> 20
 tatgcttctg agtctatgtc t

21

<210> 21
 <211> 7
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic Construct

<400> 21

Tyr Ala Ser Glu Tyr Met Ser
 1 5

<210> 22

<211> 21

<212> DNA

<213> Artificial

<220>

<223> Synthetic Construct

<400> 22

tatgcttctg agtatatgtc t

21

<210> 23

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic Construct

<220>

<221> MISC_FEATURE

<222> (5)..(5)

<223> The residue in this position could be any amino acid

<400> 23

Tyr Ala Ser Glu Xaa Met Ser
 1 5

<210> 24

<211> 21

<212> DNA

<213> Artificial

<220>

<223> Synthetic Construct

<220>

<221> misc_feature

<222> (13)..(15)

<223> The residues in these positions could be any amino acid

<400> 24

tatgcttctg agnnnatgtc t

21

<210> 25

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic Construct

<400> 25

Tyr Ala Ser Glu Ser Arg Ser
 1 5

<210> 26

<211> 21

<212> DNA

<213> Artificial

<220>

<223> Synthetic Construct

<400> 26

tatgcttctg agtctaggtc t

21

<210> 27

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic Construct

<400> 27

Tyr Ala Ser Glu Ser Lys Ser
 1 5

<210> 28

<211> 21

<212> DNA

<213> Artificial

<220>

<223> Synthetic Construct

<400> 28

tatgcttctg agtctaagtc t

21

<210> 29

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic Construct

<220>

<221> MISC_FEATURE

<222> (6)..(6)

<223> The residue in this position could be any amino acid

<400> 29

Tyr Ala Ser Glu Ser Xaa Ser
 1 5

<210> 30
 <211> 21
 <212> DNA
 <213> Artificial

<220>
 <223> Synthetic Construct

<220>
 <221> misc_feature
 <222> (16)..(18)
 <223> The residues in these positions could be any amino acid

<400> 30
 tatgcttctg agtctnnntc t

21

<210> 31
 <211> 7
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic Construct

<220>
 <221> MISC_FEATURE
 <222> (5)..(6)
 <223> The residues in these positions could be any amino acid

<400> 31
 Tyr Ala Ser Glu Xaa Xaa Ser
 1 5

<210> 32
 <211> 21
 <212> DNA
 <213> Artificial

<220>
 <223> Synthetic Construct

<220>
 <221> misc_feature
 <222> (13)..(18)
 <223> The residues in these positions could be any amino acid

<400> 32
 tatgcttctg agnnnnnnntc t

21

<210> 33
 <211> 9
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic Construct

<400> 33

Gln Gln Ser His Ser Trp His Phe Thr
 1 5

<210> 34

<211> 27

<212> DNA

<213> Artificial

<220>

<223> Synthetic Construct

<400> 34

caacaaagtc atagctggca tttcacg

27

<210> 35

<211> 10

<212> PRT

<213> Artificial

<220>

<223> Synthetic Construct

<400> 35

Gly Phe Thr Phe Ser Asn His Trp Met Asn
 1 5 10

<210> 36

<211> 30

<212> DNA

<213> Artificial

<220>

<223> Synthetic Construct

<400> 36

ggattcactt tcagtaacca ctggatgaac

30

<210> 37

<211> 10

<212> PRT

<213> Artificial

<220>

<223> Synthetic Construct

<400> 37

Gly Phe Lys Phe Ser Asn His Trp Met Asn
 1 5 10

<210> 38

<211> 30

<212> DNA

<213> Artificial

<220>

<223> Synthetic Construct

<400> 38

ggattcaagt tcagtaacca ctggatgaac

30

<210> 39

<211> 10

<212> PRT

<213> Artificial

<220>

<223> Synthetic Construct

<400> 39

Gly Phe Pro Phe Ser Asn His Trp Met Asn
1 5 10

<210> 40

<211> 30

<212> DNA

<213> Artificial

<220>

<223> Synthetic Construct

<400> 40

ggattccctt tcagtaacca ctggatgaac

30

<210> 41

<211> 10

<212> PRT

<213> Artificial

<220>

<223> Synthetic Construct

<220>

<221> MISC_FEATURE

<222> (3)..(3)

<223> The residue in this position could be any amino acid

<400> 41

Gly Phe Xaa Phe Ser Asn His Trp Met Asn
1 5 10

<210> 42

<211> 30

<212> DNA

<213> Artificial

<220>

<223> Synthetic Construct

<220>

<221> misc_feature

<222> (7)..(9)

<223> The residues in these positions could be any amino acid

<400> 42
ggattcnnnt tcagtaacca ctggatgaac

30

<210> 43
<211> 19
<212> PRT
<213> Artificial

<220>
<223> Synthetic Construct

<400> 43

Glu Ile Arg Ser Lys Ser Ile Asn Ser Ala Thr His Tyr Ala Glu Ser
1 5 10 15

Val Lys Gly

<210> 44
<211> 57
<212> DNA
<213> Artificial

<220>
<223> Synthetic Construct

<400> 44
gaaattagat caaaatctat taattctgca acacattatg cggagtctgt gaaaggg

57

<210> 45
<211> 19
<212> PRT
<213> Artificial

<220>
<223> Synthetic Construct

<400> 45

Glu Ile Arg Ser Lys Ser Met Asn Ser Ala Thr His Tyr Ala Glu Ser
1 5 10 15

Val Lys Gly

<210> 46
<211> 57
<212> DNA
<213> Artificial

<220>
<223> Synthetic Construct

<400> 46
gaaattagat caaaatctat gaattctgca acacattatg cggagtctgt gaaaggg

57

X16758M.ST25.txt

<210> 47
 <211> 19
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic Construct

<220>
 <221> MISC_FEATURE
 <222> (7)..(7)
 <223> The residue in this position could be any amino acid

<400> 47

Glu Ile Arg Ser Lys Ser Xaa Asn Ser Ala Thr His Tyr Ala Glu Ser
 1 5 10 15

Val Lys Gly

<210> 48
 <211> 57
 <212> DNA
 <213> Artificial

<220>
 <223> Synthetic Construct

<220>
 <221> misc_feature
 <222> (19)..(21)
 <223> The residues in these positions could be any amino acid

<400> 48

gaaattagat caaaatctnn naattctgca acacattatg cggagtctgt gaaaggg

57

<210> 49
 <211> 19
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic Construct

<400> 49

Glu Ile Arg Ser Lys Ser Ile Asn Ser Ala Thr His Tyr Ala Arg Ser
 1 5 10 15

Val Lys Gly

<210> 50
 <211> 57

<212> DNA
<213> Artificial

<220>
<223> Synthetic Construct

<400> 50
gaaattagat caaaatctat taattctgca acacattatg cgcgttctgt gaaaggg 57

<210> 51
<211> 19
<212> PRT
<213> Artificial

<220>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE
<222> (15)..(15)
<223> The residue in this position could be any amino acid

<400> 51
Glu Ile Arg Ser Lys Ser Ile Asn Ser Ala Thr His Tyr Ala Xaa Ser
1 5 10 15

Val Lys Gly

<210> 52
<211> 57
<212> DNA
<213> Artificial

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> (43)..(45)
<223> The residues in these positions could be any amino acid

<400> 52
gaaattagat caaaatctat taattctgca acacattatg cgnnntctgt gaaaggg 57

<210> 53
<211> 9
<212> PRT
<213> Artificial

<220>
<223> Synthetic Construct

<400> 53
Asn Tyr Tyr Gly Ser Thr Tyr Asp His
1 5

X16758M.ST25.txt

<210> 54
 <211> 27
 <212> DNA
 <213> Artificial

<220>
 <223> Synthetic Construct

<400> 54
 aattactacg gtagtaccta cgaccat

27

<210> 55
 <211> 19
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic Construct

<400> 55

Glu Ile Arg Ser Lys Ser Met Asn Ser Ala Thr His Tyr Ala Arg Ser
 1 5 10 15

Val Lys Gly

<210> 56
 <211> 57
 <212> DNA
 <213> Artificial

<220>
 <223> Synthetic Construct

<400> 56
 gaaattagat caaaatctat gaattctgca acacattatg cgcgttctgt gaaaggg

57

<210> 57
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 57

Glu Ile Val Leu Thr Gln Ser Pro Asp Phe Gln Ser Val Thr Pro Lys
 1 5 10 15

Glu Lys Val Thr Ile Thr Cys
 20

<210> 58
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 58

Trp Tyr Gln Gln Lys Pro Asp Gln Ser Pro Lys Leu Leu Ile Lys
 1 5 10 15

<210> 59

<211> 32

<212> PRT

<213> Homo sapiens

<400> 59

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
 1 5 10 15

Leu Thr Ile Asn Ser Leu Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys
 20 25 30

<210> 60

<211> 10

<212> PRT

<213> Homo sapiens

<400> 60

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 1 5 10

<210> 61

<211> 69

<212> DNA

<213> Homo sapiens

<400> 61

gaaattgtgc tgactcagtc tccagacttt cagtctgtga ctccaaaaga gaaagtcacc 60

atcacctgc 69

<210> 62

<211> 45

<212> DNA

<213> Homo sapiens

<400> 62

tggtaccagc agaagccaga tcagttctcca aagctcctca tcaag 45

<210> 63

<211> 96

<212> DNA

<213> Homo sapiens

<400> 63

ggggtccctt cgagggttcag tggcagtgga tctgggacag atttcaccct caccatcaat 60

agcctggaag ctgaagatgc tgccacgtat tactgt 96

<210> 64

X16758M.ST25.txt

<211> 30
<212> DNA
<213> Homo sapiens

<400> 64
ttcggccaag ggaccaaggt ggaaatcaaa

30

<210> 65
<211> 25
<212> PRT
<213> Homo sapiens

<400> 65

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 66
<211> 14
<212> PRT
<213> Homo sapiens

<400> 66

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Gly
1 5 10

<210> 67
<211> 32
<212> PRT
<213> Homo sapiens

<400> 67

Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Ser Leu Tyr Leu Gln
1 5 10 15

Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 68
<211> 11
<212> PRT
<213> Homo sapiens

<400> 68

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
1 5 10

<210> 69
<211> 75
<212> DNA
<213> Homo sapiens

X16758M.ST25.txt

<400> 69
gaggtgcagc tgggtggagtc tggggggaggc ttgggtccagc ctggagggtc cctgagactc 60
tcctgtgcag cctct 75

<210> 70
<211> 42
<212> DNA
<213> Homo sapiens

<400> 70
tgggtccgcc aggctccagg gaaggggctg gagtggggtg gc 42

<210> 71
<211> 96
<212> DNA
<213> Homo sapiens

<400> 71
agattcacca tctcaagaga tgattcaaag aactcactgt acctgcagat gaacagcctg 60
aaaaccgagg acacggccgt gtattactgt gctaga 96

<210> 72
<211> 33
<212> DNA
<213> Homo sapiens

<400> 72
tggggccaag ggaccctggt caccgtctcc tca 33

<210> 73
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Synthetic Construct

<400> 73
Arg Ala Pro Gln Phe Val Gly Ser Ser Ile His
1 5 10

<210> 74
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Synthetic Construct

<400> 74
agggccctc agttcggttg ctcaagcatc cac 33

<210> 75
<211> 11

<212> PRT
<213> Artificial

<220>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> The residue in this position could be any amino acid

<400> 75

Arg Ala Xaa Gln Phe Val Gly Ser Ser Ile His
1 5 10

<210> 76
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> (7)..(9)
<223> The residues in these positions could be any amino acid

<400> 76
agggccnnnc agttcgttgg ctcaagcatc cac

33

<210> 77
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Synthetic Construct

<400> 77

Arg Ala Ser Gln Phe Val Tyr Ser Ser Ile His
1 5 10

<210> 78
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Synthetic Construct

<400> 78
agggccagtc agttcgttta ttcaagcatc cac

33

<210> 79
<211> 11

X16758M.ST25.txt

<212> PRT
<213> Artificial

<220>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> The residue in this position could be any amino acid

<400> 79

Arg Ala Ser Gln Phe Val Xaa Ser Ser Ile His
1 5 10

<210> 80
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> (19)..(21)
<223> The residues in these positions could be any amino acid

<400> 80
agggccagtc agttcgtnn ntcaagcatc cac

33

<210> 81
<211> 9
<212> PRT
<213> Artificial

<220>
<223> Synthetic Construct

<400> 81

Gln Gln Ser His Trp Trp His Phe Thr
1 5

<210> 82
<211> 27
<212> DNA
<213> Artificial

<220>
<223> Synthetic Construct

<400> 82
caacaaagtc attggtggca tttcacg

27

<210> 83
<211> 9

<212> PRT
 <213> Artificial

<220>
 <223> Synthetic Construct

<220>
 <221> MISC_FEATURE
 <222> (5)..(5)
 <223> The residue in this position could be any amino acid

<400> 83

Gln Gln Ser His Xaa Trp His Phe Thr
 1 5

<210> 84
 <211> 27
 <212> DNA
 <213> Artificial

<220>
 <223> Synthetic Construct

<220>
 <221> misc_feature
 <222> (13)..(15)
 <223> The residues in these positions could be any amino acid

<400> 84
 caacaaagtc atnntggca tttcacg

27

<210> 85
 <211> 357
 <212> DNA
 <213> Homo sapiens

<400> 85
 tcagcctcca ccaagggccc atcgggtcttc cccctggcac cctcctccaa gagcacctct 60
 gggggcacag cggccctggg ctgcctggtc aaggactact tccccgaacc ggtgacggtg 120
 tcgtggaact caggcgccct gaccagcggc gtgcacacct tcccggtgt cctacagtcc 180
 tcaggactct actccctcag cagcgtggtg accgtgccct ccagcagctt gggcacccag 240
 acctacatct gcaacgtgaa tcacaagccc agcaacacca aggtggacaa gaaagcagag 300
 cccaaatctt ctactagtgt tctctaccca tatgatgtac ctgattatgc atcatag 357

<210> 86
 <211> 324
 <212> DNA
 <213> Homo sapiens

<400> 86
 cgaactgtgg ctgcaccatc tgtcttcac ttcccgccat ctgatgagca gttgaaatct 60
 ggaactgcct ctgttgtgtg cctgctgaat aacttctatc ccagagaggc caaagtacag 120

X16758M.ST25.txt

tggaaggtgg ataacgccct ccaatcgggt aactcccagg agagtgtcac agagcaggac 180
agcaaggaca gcacctacag cctcagcagc accctgacgc tgagcaaagc agactacgag 240
aaacacaaag tctacgcctg cgaagtcacc catcagggcc tgagctcgcc cgtcacaaag 300
agcttcaaca ggggagagtc ttag 324

<210> 87
<211> 39
<212> DNA
<213> Artificial

<220>
<223> Synthetic Construct

<400> 87
tggctcccag gtgccaaatg tgaaattgtg ctgactcag 39

<210> 88
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Synthetic Construct

<400> 88
tggctcccag gtgccaaatg t 21

<210> 89
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Synthetic Construct

<400> 89
gacagatggt gcagccacag t 21

<210> 90
<211> 39
<212> DNA
<213> Artificial

<220>
<223> Synthetic Construct

<400> 90
ctctccacag gtgtccactc ccaggtccaa ctgcaggtc 39

<210> 91
<211> 21
<212> DNA
<213> Artificial

<220>

<223> Synthetic Construct

<400> 91

ctctccacag gtgtccactc c

21

<210> 92

<211> 21

<212> DNA

<213> Artificial

<220>

<223> Synthetic Construct

<400> 92

gaagaccgat gggcccttgg t

21

<210> 93

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Synthetic Construct

<400> 93

Val Thr Thr Gln Phe Val Gly Tyr Ala Ile His
1 5 10

<210> 94

<211> 33

<212> DNA

<213> Artificial

<220>

<223> Synthetic Construct

<400> 94

gttactactc agttcggttg ctatgctatc cac

33

<210> 95

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic Construct

<400> 95

Tyr Ala Ser Ser Ser Arg Ser
1 5

<210> 96

<211> 21

<212> DNA

<213> Artificial

<220>

<223> Synthetic Construct

<400> 96

tatgcttctt cgtctaggtc t

21

<210> 97

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Synthetic Construct

<400> 97

Gln Gln Ser His Gly Trp Pro Phe Thr
1 5

<210> 98

<211> 27

<212> DNA

<213> Artificial

<220>

<223> Synthetic Construct

<400> 98

caacaaagtc atgggtggcc tttcacg

27

<210> 99

<211> 10

<212> PRT

<213> Artificial

<220>

<223> Synthetic Construct

<400> 99

Gly Phe Lys Phe Arg Asn His Trp Met Asn
1 5 10

<210> 100

<211> 30

<212> DNA

<213> Artificial

<220>

<223> Synthetic Construct

<400> 100

ggattcaagt tccgtaacca ctggatgaac

30

<210> 101

<211> 10

<212> PRT

<213> Artificial

<220>

X16758M.ST25.txt

<223> Synthetic Construct

<400> 101

Gly Phe Asp Phe Arg Asn His Trp Met Asn
1 5 10

<210> 102

<211> 30

<212> DNA

<213> Artificial

<220>

<223> Synthetic Construct

<400> 102

ggattcgatt tccggaacca ctggatgaac

30

<210> 103

<211> 19

<212> PRT

<213> Artificial

<220>

<223> Synthetic Construct

<400> 103

Glu Ile Arg Ser Lys Ser Met Asn Ser Ala Thr Phe Tyr Ala Glu Ser
1 5 10 15

Val Lys Gly

<210> 104

<211> 57

<212> DNA

<213> Artificial

<220>

<223> Synthetic Construct

<400> 104

gaaattagat caaatctat gaattctgca acattttatg cggagtctgt gaaaggg

57

<210> 105

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Synthetic Construct

<400> 105

Ala Ala Ser Gln Phe Val Gly Gln Ala Ile His
1 5 10

X16758M.ST25.txt

<210> 106
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Synthetic Construct

<400> 106
gcggcttctc agttcgttgg ccaggcgatc cac

33

<210> 107
<211> 7
<212> PRT
<213> Artificial

<220>
<223> Synthetic Construct

<400> 107

Tyr Ala Asn Glu Ser Arg Ser
1 5

<210> 108
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Synthetic Construct

<400> 108
tatgctaag agtctaggtc t

21

<210> 109
<211> 39
<212> DNA
<213> Artificial

<220>
<223> Synthetic Construct

<400> 109
tggctcccag gtgcctaatg tgaaattgtg ctgactcag

39

<210> 110
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Synthetic Construct

<400> 110
tggctcccag gtgcctaatg t

21

<210> 111
<211> 21

<212> DNA
 <213> Artificial

<220>
 <223> Synthetic Construct

<400> 111
 gacagatggt gcagccacag t

21

<210> 112
 <211> 39
 <212> DNA
 <213> Artificial

<220>
 <223> Synthetic Construct

<400> 112
 ctctccacag gtgtccactc ccaggtccaa ctgcaggtc

39

<210> 113
 <211> 21
 <212> DNA
 <213> Artificial

<220>
 <223> Synthetic Construct

<400> 113
 ctctccacag gtgtccactc c

21

<210> 114
 <211> 21
 <212> DNA
 <213> Artificial

<220>
 <223> Synthetic Construct

<400> 114
 gaagaccgat gggcccttgg t

21